



ELITE Series™

**PORTABLE GENERATOR
GÉNÉRATEUR PORTATIF
GENERADOR PORTÁTIL**

**Owner's Manual
Manuel de l'utilisateur
Manual del Propietario**

**1000
Starting
Watts**



Questions? Help is just a moment away!

Vous avez des questions? Vous n'avez pas besoin d'aller loin pour trouver de l'aide!

Preguntas? La ayuda es justa un momento lejos!

Call: **Generator Helpline - 1-800-743-4115** M-F 8-5 CT

Appelez: **Ligne d'assistance de Générateur - 1-800-743-4115** M-F 8-5 CT

Llamada: **Generador Helpline - 1-800-743-4115** M-F 8-5 CT

**BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
JEFFERSON, WISCONSIN, U.S.A.**

Model 01532-2
Manual No. 192115GS
Revision 0 (01/07/2003)



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EQUIPMENT DESCRIPTION



Read this manual carefully and become familiar with your generator. Know its applications, its limitations and any hazards involved.

The generators are an engine-driven, revolving field, alternating current (AC) generator. It was designed to supply electrical power for operating compatible electrical lighting, appliances, tools and motor loads. The generator's revolving field is driven at about 3,600 rpm by a single-cylinder engine.

CAUTION! DO NOT exceed the generator's wattage/amperage capacity. See "Don't Overload the Generator" on page 10.


Every effort has been made to ensure that information in this manual is accurate and current. However, we reserve the right to change, alter or otherwise improve the product and this document at any time without prior notice.

The Emission Control System for this generator is warranted for standards set by the Environmental Protection Agency.

SAFETY RULES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol () is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards. **DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury. **WARNING** indicates a hazard which, if not avoided, *could* result in death or serious injury. **CAUTION** indicates a hazard which, if not avoided, *might* result in minor or moderate injury. **CAUTION**, when used **without** the alert symbol, indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

In the State of California a spark arrester is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. If you equip the muffler with a spark arrester, it must be maintained in effective working order.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



900W Generator



DANGER



Running generator gives off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide will cause nausea, fainting or death.

- Operate generator **ONLY** outdoors.
- Keep at least 2 feet of clearance on all sides of generator for adequate ventilation.
- **DO NOT** operate generator inside any building or enclosure, including the generator compartment of a recreational vehicle (RV).

DANGER



Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.

- National Electric Code requires generator to be properly grounded to an approved earth ground. Call an electrician for local grounding requirements.

DANGER



Generator produces powerful voltage.

Failure to isolate generator from power utility can result in death or injury to electric utility workers due to backfeed of electrical energy.

- When using generator for backup power, notify utility company. Use approved transfer equipment to isolate generator from electric utility.
- Use a ground circuit fault interrupter (GFCI) in any damp or highly conductive area, such as metal decking or steel work.
- **DO NOT** touch bare wires or receptacles.
- **DO NOT** use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- **DO NOT** operate generator in the rain.
- **DO NOT** handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- **DO NOT** allow unqualified persons or children to operate or service generator.

WARNING

- This generator does not meet U. S. Coast Guard Regulation 33CFR-183 and should not be used on marine applications.
- Failure to use the appropriate U. S. Coast Guard approved generator could result in bodily injury and/or property damage.

DANGER



Storage batteries give off explosive hydrogen gas during recharging.

Hydrogen gas stays around battery for a long time after battery has been charged.

Slightest spark will ignite hydrogen and cause explosion.

You can be blinded or severely injured.



Battery electrolyte fluid contains acid and is extremely caustic.

Contact with battery fluid will cause severe chemical burns.

- **DO NOT** allow any open flame, spark, heat, or lit cigarette during and for several minutes after charging a battery.
- Wear protective goggles, rubber apron, and rubber gloves.

WARNING



Fuel and its vapors are extremely flammable and explosive.



Fire or explosion can cause severe burns or death.

WHEN ADDING FUEL

- Turn generator **OFF** and let it cool at least 2 minutes before removing gas cap. Loosen cap slowly to relieve pressure in tank.
- Fill fuel tank outdoors.
- **DO NOT** overfill tank. Allow space for fuel expansion.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- **DO NOT** light a cigarette or smoke.

WHEN OPERATING EQUIPMENT

- **DO NOT** tip engine or equipment at angle which causes fuel to spill.
- This generator is not for use in mobile equipment or marine applications.

WHEN TRANSPORTING OR REPAIRING EQUIPMENT

- Transport/repair with fuel tank **EMPTY** or with fuel shutoff valve **OFF**.
- Disconnect spark plug wire.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.



WARNING



Unintentional sparking can result in fire or electric shock.



WHEN ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WARNING



Running engines produce heat. Temperature of muffler and nearby areas can reach or exceed 150°F (65°C).

Severe burns can occur on contact.

- DO NOT touch hot surfaces.
- Allow equipment to cool before touching.

CAUTION

Excessively high operating speeds increase risk of injury and damage to generator.

Excessively low speeds impose a heavy load.

- DO NOT tamper with governed speed. Generator supplies correct rated frequency and voltage when running at governed speed.
- DO NOT modify generator in any way.

CAUTION

Exceeding generators wattage/amperage capacity can damage generator and/or electrical devices connected to it.

- See “Don’t Overload Your Generator” on page 10.
- Start generator and let engine stabilize before connecting electrical loads.
- Connect electrical loads in OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from generator before stopping generator.

CAUTION

Improper treatment of generator can damage it and shorten its life.

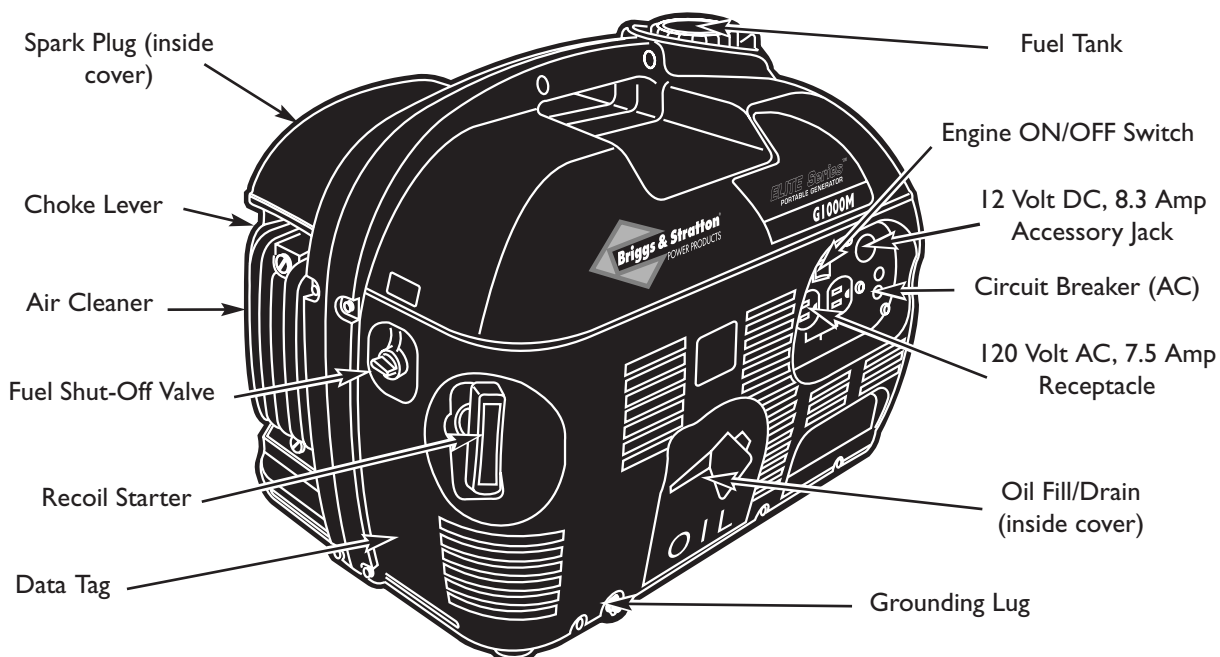
- Use generator only for intended uses.
- If you have questions about intended use, ask dealer or contact your nearest authorized service center.
- Operate generator only on level surfaces.
- DO NOT expose generator to excessive moisture, dust, dirt, or corrosive vapors.
- DO NOT insert any objects through cooling slots.
- If connected devices overheat, turn them off and disconnect them from generator.
- Shut off generator if:
 - electrical output is lost;
 - equipment sparks, smokes, or emits flames;
 - unit vibrates excessively.



KNOW YOUR GENERATOR

Read this owner's manual and safety rules before operating your generator.

Compare the illustrations with your generator to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



12 Volt DC, 8.3 Amp Accessory Jack — May be used to power 12 Volt DC electrical devices or recharge 12 Volt DC batteries.

120 Volt AC, 7.5 Amp Receptacles — May be used to supply electrical power for the operation of 120 Volt AC, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

Air Cleaner — Uses a foam element to limit the amount of dirt and dust that enters the engine.

Choke Lever — Used to manually provide proper starting mixture when engine is cold.

Circuit Breaker (AC) — Receptacles are provided with a push-to-reset circuit breaker to protect the generator against electrical overload.

Data Tag — Provides model, revision and serial number of generator. Please have these readily available if calling for assistance.

Engine ON/OFF Switch — Used to stop a running engine.

Fuel Shut-Off Valve — Use this valve to turn the fuel supply on and off.

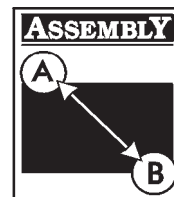
Fuel Tank — Capacity of 1.2 U.S. gallons (4.5 liters) of fuel.

Grounding Lug — Use this connection to properly ground the generator. See "Grounding the Generator" on page 7.

Oil Fill/Drain — Access to oil fill dipstick and engine oil drain plug.

Recoil Starter — Used for starting the engine.

Spark Plug — Access to engine spark plug.



ASSEMBLY

Carton Contents

Check all contents. If any parts are missing or damaged, call the generator helpline at **1-800-743-4115**. If calling for assistance, please have the model, revision, and serial number from the data tag available. Shipped with your generator is:

- Main unit
- Oil bottle
- Owner's manual
- Battery charge cables

BEFORE STARTING ENGINE

Add Oil

NOTE: When adding oil to the engine crankcase in the future, use only high quality detergent oil rated with API service classification SG, SF/CC, CD. Select the oil's viscosity grade according to your expected operating temperature:

colder ← 32°F → warmer

SAE 10W30

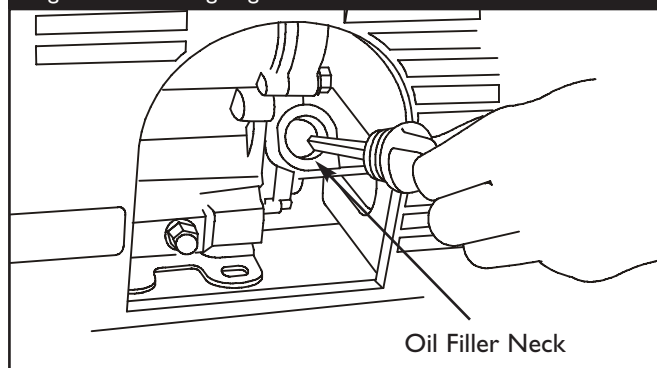
SAE 30

SAE 10W-30 is recommended for general all temperature use. Multi-viscosity oils (10W30, etc.) improve starting in cold weather, but these oils will result in increased oil consumption. Check your engine oil level more frequently to avoid possible damage from running low on oil.

To Add Engine Oil:

- Place the generator on a level surface.
- Remove the oil fill cover.
- Remove oil filler cap and wipe dipstick clean (Figure 1).

Figure 1 — Adding Engine Oil



- If the oil level is not at the point of overflowing from the oil filler neck, slowly fill engine with recommended oil.
- Reinstall oil filler cap and tighten securely.
- Replace the oil fill cover.
- Check the engine oil level before starting each time thereafter.

Add Fuel



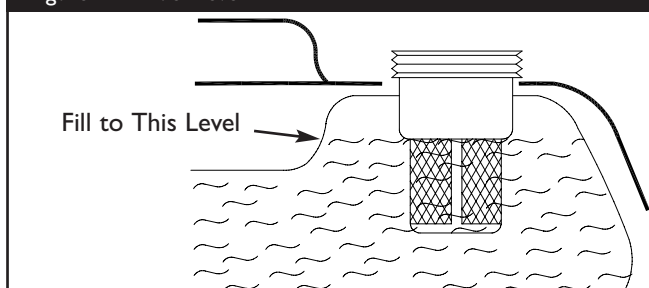
WARNING! NEVER fill fuel tank indoors. NEVER fill fuel tank when engine is running or hot. Allow unit to cool for two minutes before refueling. DO NOT light a cigarette or smoke when filling the fuel tank.



WARNING! DO NOT overfill the fuel tank. Always allow room for fuel expansion.

- Use clean fresh UNLEADED fuel with a pump rating of 86 or higher. DO NOT use premium or leaded fuel. DO NOT mix oil with fuel.
- Clean area around fuel fill cap, remove cap.
- Check the fuel level.
- If fuel level is low, slowly add recommended fuel to fuel tank, up to the shoulder of the fuel strainer (Figure 2). Be careful not to overfill (there should be no fuel in the filler neck).

Figure 2 — Fuel Level



NOTE: Occasionally clear the fuel strainer of any dirt, rust, or other particulate matter.

- Install fuel cap and wipe up any spilled fuel.

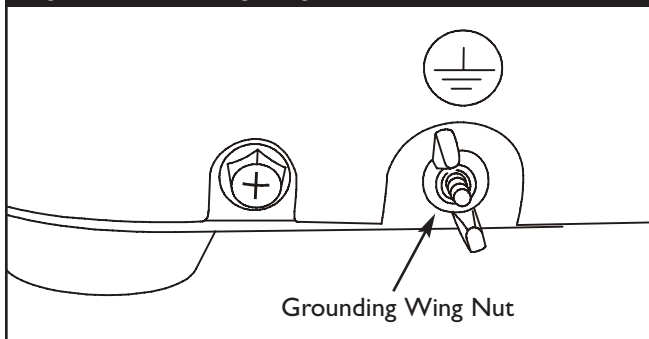
Occasionally you may hear a light "spark knock" or "pinging" (metallic rapping noise) while operating under heavy loads. This is no cause for concern. If spark knock or pinging occurs at a steady engine speed under normal load, change brands of fuel or obtain a higher octane rated fuel. If pinging or spark knock persists, see your local Briggs & Stratton repair center.



GROUNDING THE GENERATOR

The National Electrical Code requires that the frame and external electrically conductive parts of this generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the unit. For that purpose, a **GROUNDING WING NUT** is provided on the generator housing (Figure 3).

Figure 3 — Grounding Wing Nut



Generally, connecting a No. 12 AWG (American Wire Gauge) stranded copper wire to the grounding wing nut and to an earth-driven copper or brass grounding rod (electrode) provides adequate protection against electrical shock. Be careful to keep the grounding wire attached after connecting the stranded copper wire. However, local codes may vary widely. Consult with a local electrician for grounding requirements in your area.

Properly grounding the generator helps prevent electrical shock if a ground fault condition exists in the generator or in connected electrical devices. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices.

OPERATING THE GENERATOR



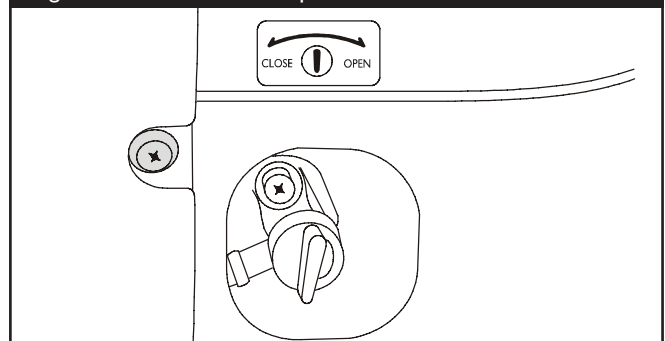
CAUTION! NEVER start or stop the engine with electrical loads connected to the unit and with the connected devices turned ON.

Starting the Engine

Disconnect all electrical loads from the generator. Use the following start instructions:

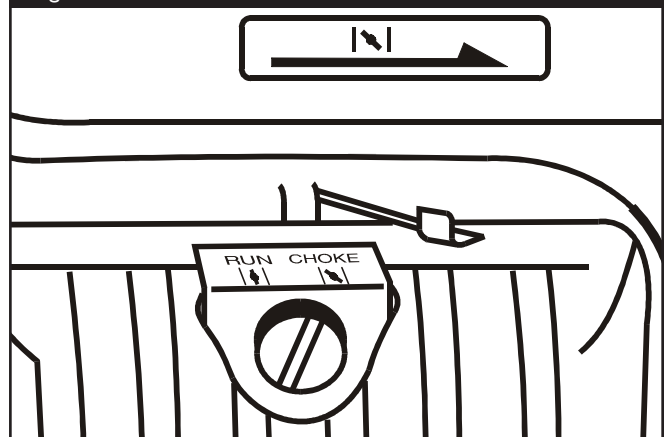
- Be sure the spark plug wire is attached to the spark plug.
- Turn the fuel valve to the “**Open**” position (fully clockwise) (Figure 4).

Figure 4 — Fuel Valve in Open Position



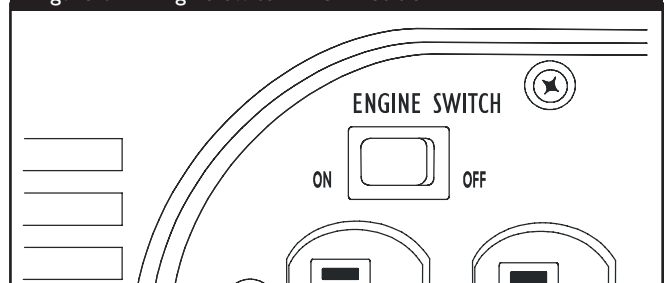
- Slide the choke lever to the “**Choke**” position (all the way to the right) (Figure 5).

Figure 5 — Choke Lever



- Place the engine switch in the “**On**” position (Figure 6).

Figure 6 — Engine Switch in On Position



- Grasp starter grip and slowly pull the rope until you feel some resistance, then pull the cord out with a rapid full arm stroke. Let rope return slowly. **DO NOT** let rope “snap back” against the unit.



NOTE: If engine starts after 3 pulls, but fails to run for more than 10 seconds, check for proper oil level in crankcase. This unit is equipped with a Oil Alert System (see page 8).

- Slide the choke lever left to the “**Run**” position as the engine warms up.

NOTE: Under no load conditions, the engine speed may vary slightly faster or slower until engine temperatures stabilize.



CAUTION! Breathing Hazard! NEVER run engine in enclosed poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

Connecting Electrical Loads

- Let engine stabilize and warm up for a few minutes after starting.
- DO NOT connect 240 Volt loads to 120 Volt receptacles.
- DO NOT connect 3-phase loads to the generator.
- DO NOT connect 50 Hz loads to the generator.
- Plug in and turn on the desired 120 Volt AC, single phase, 60 Hertz electrical loads.
- **DO NOT OVERLOAD THE GENERATOR.** Add up the rated watts (or amps) of all loads to be connected at one time. This total should not be greater than the rated wattage/ampere capacity of the generator. See “Don’t Overload the Generator” on page 10.

Stopping the Engine

- Unplug **all** electrical loads from the unit. NEVER start or stop engine with electrical devices plugged in and turned on.
- Let engine run at no-load for two minutes to stabilize the internal temperatures.
- Move engine switch to the “**Off**” position.
- Turn the fuel valve to the “**Close**” position (fully counterclockwise).

NOTE: In an emergency, stop the engine by moving the engine switch to the “**Off**” position.

Oil Alert System

The Oil Alert System is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert System will automatically shut down the engine (the engine switch will remain in the “**On**” position). If the Oil Alert System shuts down the engine, add engine oil.

Charging a Battery



WARNING! Storage batteries emit explosive gas while charging that remains around a battery for a long time after it has been charged. The slightest spark can ignite the gas, causing an explosion that can shatter the battery and cause blindness or other injury.



WARNING! DO NOT permit smoking, open flame, sparks or any other source of heat around a battery. DO NOT use a lighter or other flame for checking battery fluid levels. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluid is an extremely caustic sulfuric acid solution that can cause severe burns. DO NOT permit fluid contact with eyes, skin, clothing, etc. If spill occurs, flush area with clear water immediately.

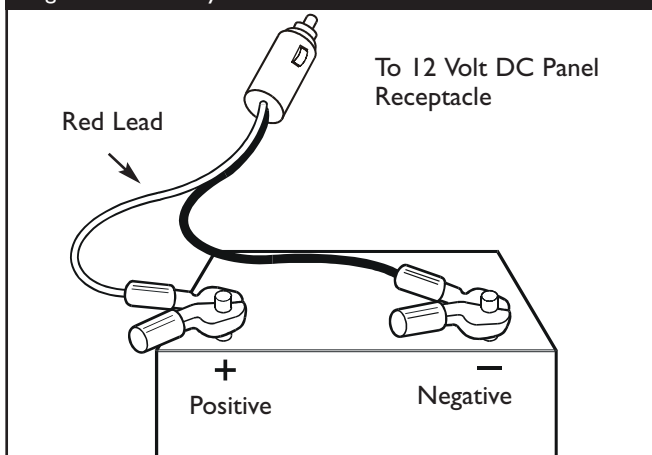
Your generator has the capability of recharging a discharged 12 Volt automotive or utility style storage battery. DO NOT use the unit to charge any 6 Volt batteries. DO NOT use the unit to crank an engine having a discharged battery.

To recharge 12 Volt batteries, proceed as follows:

- If necessary, clean battery posts or terminals.
- Check fluid level in all battery cells. If necessary, add **ONLY** distilled water to cover separators in battery cells. **DO NOT use tap water.**
- If the battery is equipped with vent caps, make sure they are installed and are tight.
- Connect battery charge cable connector plug to the 12 Volt DC panel receptacle.
- Connect battery charge cable clamp with **red** handle to battery post or terminal indicated by **Positive, POS** or **(+)** (Figure 7).



Figure 7 — Battery Connections



- Connect battery charge cable clamp with **black** handle to battery post or terminal indicated by **Negative**, **NEG**, or **(-)** (Figure 7).
- Start generator. Let the engine run while battery recharges.
- When battery has charged, shut down engine (see “Stopping The Engine”)

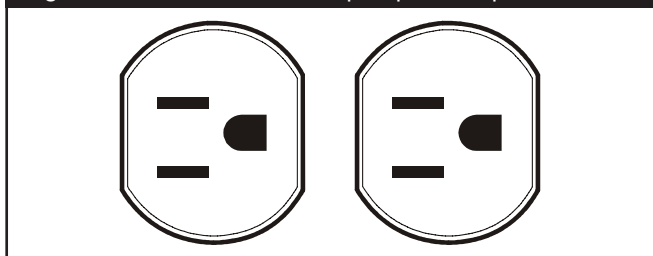
NOTE: Use an automotive hydrometer to test battery state of charge and condition. Follow the hydrometer manufacturer’s instructions carefully. Generally, a battery is considered to be at 100% state of charge when specific gravity of its fluid (as measured by hydrometer) is 1.260 or higher.

CONNECTOR PLUGS

120 Volt AC, 15 Amp Receptacle

Each outlet socket is protected against overload by a 7.5 Amp push-to-reset circuit breaker. Use each receptacle to operate 120 Volt AC, single phase, 60 Hz electrical loads requiring up to 1,000 watts (1.0 kW) of power (Figure 8).

Figure 8 — 120 Volt AC, 15 Amp Duplex Receptacle

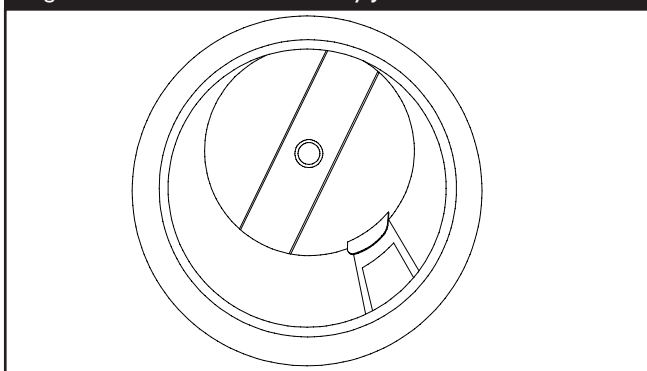


CAUTION! Although each receptacle is rated for 120 Volts at 15 Amps (1,440 watts or 1.44 kW), the generator is rated for a total of 1,000 watts. Powering loads that exceed the wattage capacity of the generator can damage it or cause serious injuries. The total of loads powered through these receptacles should not exceed 7.5 Amps.

12 Volt DC Accessory Jack

This receptacle allows you to recharge a 12 Volt automotive or utility style storage battery with the battery charge cable provided. Camping-style air pumps, lanterns, fans, or other 12 Volt devices having a cigarette lighter-type plug may also be powered by this outlet (Figure 9).

Figure 9 — 12 Volt DC Accessory Jack



This receptacle can not recharge 6 Volt batteries and can not be used to crank an engine having a discharged battery. See “Charging a Battery” (page 8) before attempting to recharge a battery.

EXTENSION CORDS

Use only high quality, well-insulated, extension cords with the generator’s 120 Volt electrical receptacles.

Check the ratings of all extension cords before you use them. Such cords should be rated for 125 Volt AC loads at 15 Amps (or greater) for most electrical devices. Some devices, however, may not require this type of extension cord. Check the owner’s manuals of those devices for their recommendations.

Keep extension cords as short as possible, preferably less than 15 feet long, to prevent voltage drop and possible overheating of wires.



DON'T OVERLOAD YOUR GENERATOR

Capacity

You must make sure your generator can supply enough rated (running) and surge (starting) watts for the items you will power at the same time. Follow these simple steps:

1. Select the items you will power at the same time.
2. Total the rated (running) watts of these items. This is the amount of power your generator must produce to keep your items running. See Figure 10.
3. Estimate how many surge (starting) watts you will need. Surge wattage is the short burst of power needed to start electric motor-driven tools or appliances such as a circular saw or refrigerator. Because not all motors start at the same time, total surge watts can be estimated by adding only the item(s) with the highest additional surge watts to the total rated watts from step 2.

Example:

Tool or Appliance	Rated (Running) Watts	Additional Surge (Starting) Watts
Window Air Conditioner	1200	1800
Refrigerator	800	1600
Deep Freezer	500	500
Television	500	-
Light (75 Watts)	75	-
	3075 Total Running Watts	1800 Highest Surge Watts

Total Rated (Running) Watts = 3075

Highest Additional Surge Watts = 1800

Total Generator Output Required = 4875

Power Management

To prolong the life of your generator and attached devices, it is important to take care when adding electrical loads to your generator. There should be nothing connected to the generator outlets before starting it's engine. The correct and safe way to manage generator power is to sequentially add loads as follows:

1. With nothing connected to the generator, start the engine as described in this manual.
2. Plug in and turn on the first load, preferably the largest load you have.
3. Permit the generator output to stabilize (engine runs smoothly and attached device operates properly).

4. Plug in and turn on the next load.
5. Again, permit the generator to stabilize.
6. Repeat steps 4 and 5 for each additional load.

NEVER add more loads than the generator capacity. Take special care to consider surge loads in generator capacity, as described above.

Figure 10 - Wattage Reference Chart

Tool or Appliance	Rated* (Running) Watts	Additional Surge (Starting) Watts
Essentials		
Light Bulb - 75 watt	75	-
Deep Freezer	500	500
Sump Pump	800	1200
Refrigerator/Freezer - 18 Cu. Ft.	800	1600
Water Well Pump - 1/3 HP	1000	2000
Heating/Cooling		
Window AC - 10,000 BTU	1200	1800
Window Fan	300	600
Furnace Fan Blower - 1/2 HP	800	1300
Kitchen		
Microwave Oven - 1000 Watt	1000	-
Coffee Maker	1500	-
Electric Stove - Single Element	1500	-
Hot Plate	2500	-
Family Room		
DVD/CD Player	100	-
VCR	100	-
Stereo Receiver	450	-
Color Television - 27"	500	-
Personal Computer w/17" monitor	800	-
Other		
Security System	180	-
AM/FM Clock Radio	300	-
Garage Door Opener - 1/2 HP	480	520
Electric Water Heater - 40 Gallon	4000	-
DIY/Job Site		
Quartz Halogen Work Light	1000	-
Airless Sprayer - 1/3 HP	600	1200
Reciprocating Saw	960	960
Electric Drill - 1/2 HP	1000	1000
Circular Saw - 7 1/4"	1500	1500
Miter Saw - 10"	1800	1800
Table Planer - 6"	1800	1800
Table Saw/Radial Arm Saw - 10"	2000	2000
Air Compressor - 1-1/2 HP	2500	2500

*Wattages listed are approximate only. Check tool or appliance for actual wattage.



PRODUCT SPECIFICATIONS

Generator Specifications

Rated Surge Watts	1,000 Watts
Rated Running Watts	900 Watts
Rated Maximum Current	
At 120 Volts AC	7.5 Amps
At 12 Volts DC	8.3 Amps
Phase	Single Phase
Rated Frequency	60 Hertz
Packaged Weight	61 lbs.

Engine Specifications

Model	Mitsubishi GM82
Rated Horsepower	2.4 at 4000 rpm
Displacement	80cc
Spark Plug Type:	NGK BP6HS or equivalent
Set Gap To:	0.030inch (0.75mm)
Fuel Capacity	1.2 U.S. gallons (4.5 l)

GENERAL MAINTENANCE RECOMMENDATIONS

The generator warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain generator as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your generator.

All adjustments in this section should be made at least once each season. Follow the requirements in the "Maintenance Schedule" chart shown below in Figure 11.

NOTE: Once a year you should clean or replace the spark plug and replace the air filter. A new spark plug and clean air filter assure proper fuel-air mixture and help your engine run better and last longer.

GENERATOR MAINTENANCE

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling air slots in the generator must not become clogged with snow, leaves or any other foreign material.

Figure 11 – Maintenance Schedule

Item	Operation	Each use	First Month or 25 hours	Every 3 months or 50 hours	Every 6 months or 100 hours
Engine oil	Check level	X			
	Change		X	X	
Air cleaner	Check	X			
	Clean			X (1)	
Spark arrester	Check – Clean			X (2,3)	
Spark plug	Check – Clean			X	
Valve clearance	Check – Adjust				X (3)
Fuel tank strainer	Clean				X (3)
Fuel line	Check (Replace if necessary)		Every 3 years (3)		

- 1 Clean more often under dirty or dusty conditions. Replace cleaner parts if very dirty.
- 2 Check every 10 hours or 3 months.
- 3 These items should be serviced by an authorized dealer, unless the owner has the proper tools and is mechanically proficient.

Check the cleanliness of the generator frequently and clean when dust, dirt, oil, moisture or other foreign substances are visible on its exterior surface.

NOTE: DO NOT use a garden hose to clean generator. Water can enter engine fuel system and cause problems. In addition, if water enters generator through cooling air slots, some of the water will be retained in voids and cracks of the rotor and stator winding insulation. Water and dirt buildup on the generator internal windings will eventually decrease the insulation resistance of these windings.

To Clean the Generator

- Use a damp cloth to wipe exterior surfaces clean.
- Soft, bristle brush may be used to loosen caked on dirt or oil.

CAUTION! NEVER insert any object or tool through the air cooling slots, even if the engine is not running.

- A vacuum cleaner may be used to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and opening on generator. These openings must be kept clean and unobstructed.

WARNING! When working on the generator always disconnect spark plug wire from spark plug and keep it away from spark plug.

ENGINE MAINTENANCE

Checking Oil Level

Oil level should be checked prior to each use or at least every 5 hours of operation. Keep oil level maintained.

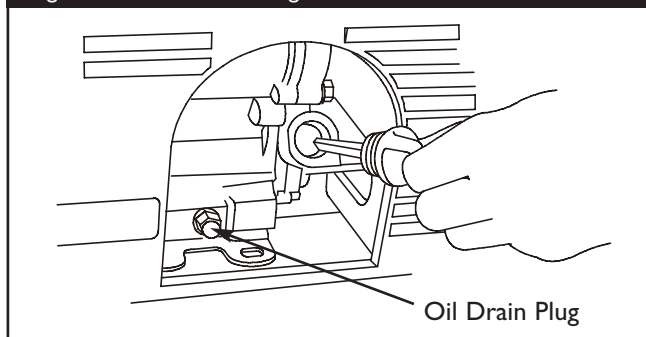
Changing Engine Oil

Change the oil after the first month of operation, then every 25 hours. If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather, change the oil more often.

Change the oil while the engine is still warm from running, as follows:

- Remove the oil fill cover and clean area around oil drain plug (Figure 12).

Figure 12 — Oil Drain Plug



- Remove oil drain plug, sealing washer, and oil filler cap. Drain oil completely into a suitable container.
- Install oil drain plug and sealing washer. Tighten securely.
- Refill with recommended oil and check the level. See page 6 for oil recommendations.
- Wipe up any spilled oil.

CAUTION! Avoid prolonged or repeated skin contact with used motor oil. Used motor oil has been shown to cause skin cancer in certain laboratory animals. Thoroughly wash exposed areas with soap and water. **KEEP OUT OF REACH OF CHILDREN.**
DON'T POLLUTE. CONSERVE RESOURCES.
RETURN USED OIL TO COLLECTION CENTERS.

- Replace oil fill cover.

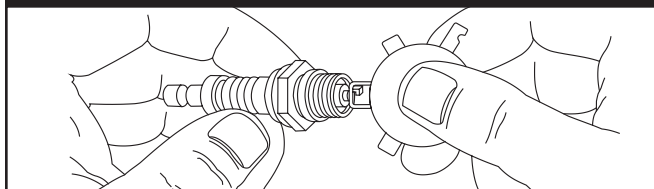
Clean/Replace Spark Plug

Check and clean the spark plug every 50 hours of operation or every three months, whichever comes first. This will help your engine to start easier and run better.

- Remove spark plug access cover. Remove spark plug cap.
- Clean the area around the spark plug.
- Remove and inspect the spark plug.
- Replace the spark plug if electrodes are pitted or burned or the porcelain is cracked. Use recommended plug for replacement.
- Check electrode gap with wire feeler gauge and set spark plug gap between 0.028 and 0.031 inch (0.7 to 0.8 mm) if necessary (Figure 13).



Figure 13 — Service Spark Plug



- Reinstall spark plug.

Service Air Cleaner

Your engine will not run properly and may be damaged if you run it using a dirty air filter element.

Check the air filter every use and clean or replace the paper air filter element every 50 hours of operation or every three months, whichever comes first. Clean or replace more often if operating under dusty or dirty conditions.

To clean or replace air filter element:

- Loosen the air cleaner cover screws, remove the air cleaner cover, and remove the element (see item number 4, exploded view on page 22).
- Wipe clean the inside of the filter housing and cover thoroughly.
- Wash the element in a solution of household detergent and warm water, then rinse thoroughly. Or wash in nonflammable or high flash point solvent. Allow the element to dry thoroughly.
- Soak the element in clean engine oil and squeeze out the excess oil. **DO NOT** twist. The engine will smoke during initial start-up if too much oil is left in the element.

NOTE: If you need to order a new air filter element, please call **1-800-743-4115**.

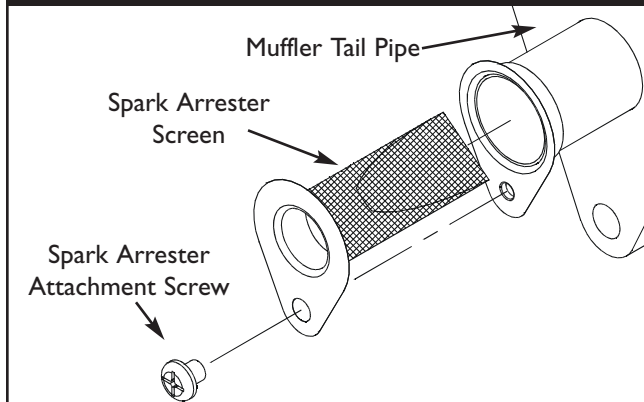
- Reinstall the air cleaner element and the cover. Hand tighten the air cleaner cover screws.

Clean Spark Arrester Screen

The engine muffler is equipped with a removable spark arrester screen. Inspect and clean the screen every 10 hours of operation or every three months, as shown in Figure 14:

- Loosen the screw on the muffler tail pipe and remove the spark arrester screen.

Figure 14 — Service Spark Arrester Screen



- Use a brass or stiff-bristle brush to remove carbon deposits from the spark arrester surface.
- Inspect the spark arrester for breaks or tears and replace it if necessary.

NOTE: If you need to order a new spark arrester, please call **1-800-743-4115**.

- Install the clean screen in the reverse order of removal.

NOTE: If you use your generator on any forest-covered, brush-covered or grass-covered unimproved land, it must have a spark arrester installed. The spark arrester must be maintained in good condition by the owner/operator.

STORAGE INSTRUCTIONS

Transporting and Storage

When transporting the generator, turn the engine switch to “**Off**” and the fuel valve to “**Close**”. Keep the generator level to prevent fuel spillage.



WARNING! Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.

Take care to not drop or strike the generator when transporting. **DO NOT** place heavy objects on the generator.

The generator should be started at least once every seven days and allowed to run at least 30 minutes. If this cannot be done and you must store the unit for more than 30 days, use the following guidelines to prepare it for storage.

Long Term Storage Instructions

WARNING! NEVER store engine with fuel in tank indoors or in enclosed, poorly ventilated areas where fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer or other gas appliance. Be sure the storage area is free from excessive humidity and dust.

One Month to One Year

Drain the carburetor float bowl (see following section) and fuel tank into a suitable container. After removal from storage, fill with fresh fuel before starting.

More than One Year

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

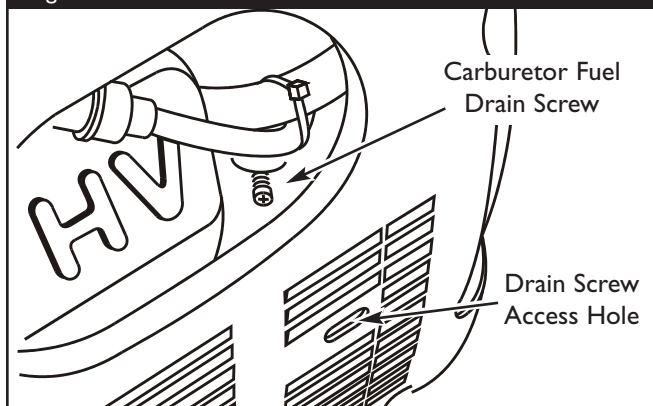
To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Follow these instructions:

Protect Fuel System

WARNING! Drain fuel into approved container outdoors, away from open flame. Be sure engine is cool. DO NOT smoke.

- Drain carburetor float bowl and fuel tank into a suitable container by loosening the drain screw (Figure 15).

Figure 15 – Drain Fuel From Carburetor



- Retighten drain screw before refueling.

Change Oil

While engine is still warm, change oil as described on page 12. Refill with recommended grade.

Oil Cylinder Bore

- Remove spark plug and pour about one tablespoon of clean engine oil into the cylinder.

CAUTION! Avoid spray from spark plug hole when cranking engine slowly.

- Cover spark plug hole with rag. Crank slowly several times to distribute oil.
- Install spark plug. DO NOT connect spark plug wire.
- Slowly pull the starter grip until resistance is felt. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.

Generator

- Clean the generator as outlined on page 12 ("To Clean the Generator").
- Check that cooling air slots and openings on generator are open and unobstructed.

Other Storage Tips

- DO NOT store fuel from one season to another.
- Replace the fuel can if it starts to rust. Rust and/or dirt in fuel will cause problems.
- If possible, store your unit indoors. **BE SURE TO EMPTY THE FUEL TANK.**
- Cover your unit with a suitable protective cover that does not retain moisture.

IMPORTANT: NEVER cover your generator while engine and exhaust area are warm.

- Store generator in clean, dry area.

NOTES



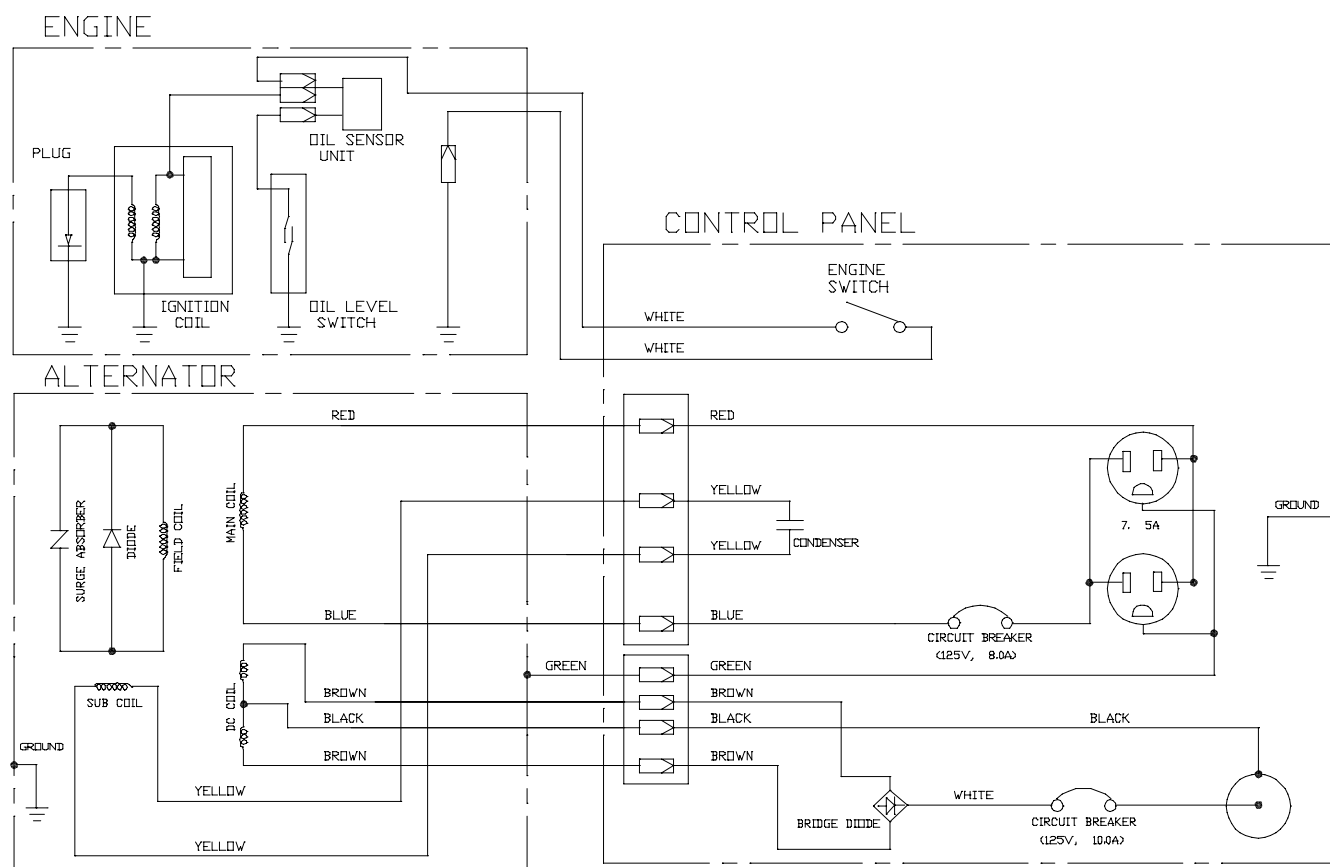
NOTES

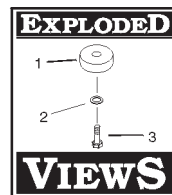


TROUBLESHOOTING

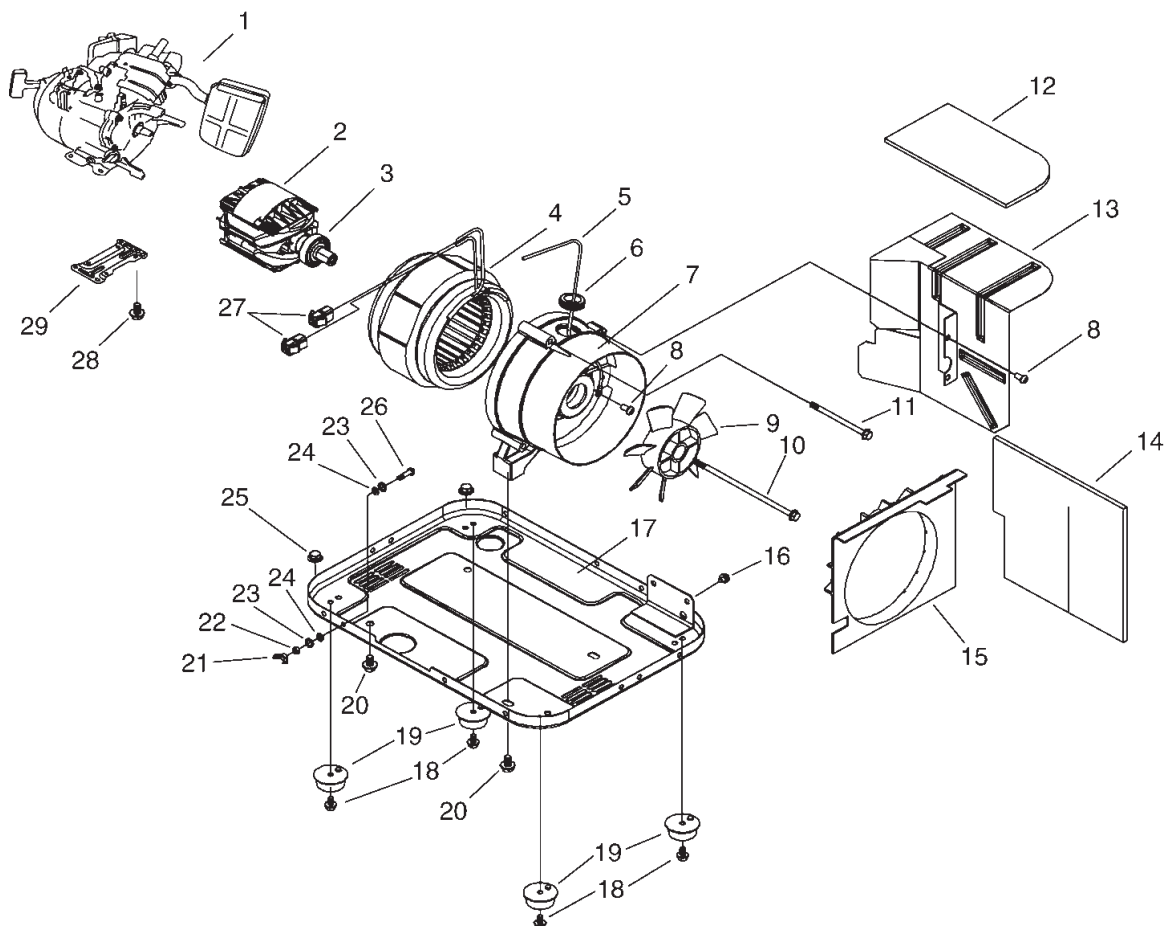
Problem	Cause	Correction
No AC or DC output is available but engine is running.	<ol style="list-style-type: none">1. One of the circuit breakers is open.2. Fault in generator.3. Poor connection or defective cord set.4. Connected device is bad.	<ol style="list-style-type: none">1. Reset circuit breaker.2. Contact Briggs & Stratton Power Products service facility.3. Check and repair.4. Connect another device that is in good condition.
Generator runs good at no-load but "bogs down" when loads are connected.	<ol style="list-style-type: none">1. Short circuit in a connected load.2. Engine speed is too slow.3. Generator is overloaded.4. Shorted generator circuit.	<ol style="list-style-type: none">1. Disconnect shorted electrical load.2. Contact Briggs & Stratton service facility.3. See "Don't Overload the Generator" on page 10.4. Contact Briggs & Stratton Power Products service facility.
Engine will not start; or starts and runs rough.	<ol style="list-style-type: none">1. Engine switch set to "Off".2. Fuel valve in the "Closed" position.3. Dirty air cleaner.4. Out of gasoline.5. Stale gasoline.6. Spark plug wire not connected to spark plug.7. Bad spark plug.8. Water in gasoline.9. Overchoked or flooded.10. Excessively rich fuel mixture.11. Intake valve stuck open or closed.12. Engine has lost compression.	<ol style="list-style-type: none">1. Set switch to "On".2. Turn fuel valve to the "Open" position.3. Clean or replace air cleaner.4. Fill fuel tank.5. Drain gas tank and carburetor; fill with fresh fuel.6. Connect wire to spark plug.7. Replace spark plug.8. Drain gas tank and carburetor; fill with fresh fuel.9. Wait 5 minutes and re-crank engine.10. Contact Briggs & Stratton service facility.11. Contact Briggs & Stratton service facility.12. Contact Briggs & Stratton service facility.
Engine shuts down when running.	<ol style="list-style-type: none">1. Out of gasoline.2. Low oil level.	<ol style="list-style-type: none">1. Fill fuel tank.2. Fill crankcase to proper level.
Engine lacks power.	<ol style="list-style-type: none">1. Load is too high.2. Dirty air filter.	<ol style="list-style-type: none">1. See "Don't Overload the Generator" on page 10.2. Replace air filter.
Engine "hunts" or falters.	<ol style="list-style-type: none">1. Choke is opened too soon.2. Carburetor is running too rich or too lean.	<ol style="list-style-type: none">1. Move choke to halfway position until engine runs smoothly.2. Contact Briggs & Stratton service facility.

WIRING DIAGRAM



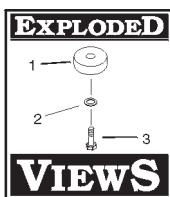


EXPLODED VIEW AND PARTS LIST – MAIN UNIT



Item	Part #	Qty	Description
1	NSP	1	ENG, MITSUB, 2.4HP
2	I87378GS	1	ROTOR
3	I87411GS	1	BRG
4	I87379GS	1	STATOR
5	I87430GS	1	LEAD, GREEN
6	I87409GS	1	BUSHING, LEAD WIRE, G790B
7	I87381GS	1	RBC, 1K
8	I87399GS	3	SCREW, SELF TAP, M6-12
9	I87382SGS	1	FAN, COOLING
10	I87388GS	1	BOLT, RTR
11	I87389GS	3	BOLT, STATOR
12	I87405GS	1	INSLTN, HEAT SEALED, #1
13	I87384GS	1	MFFLR, SEALED
14	I87407GS	1	INSLTN, HEAT SEALED, #2
15	I87403GS	1	DUCT, AIR

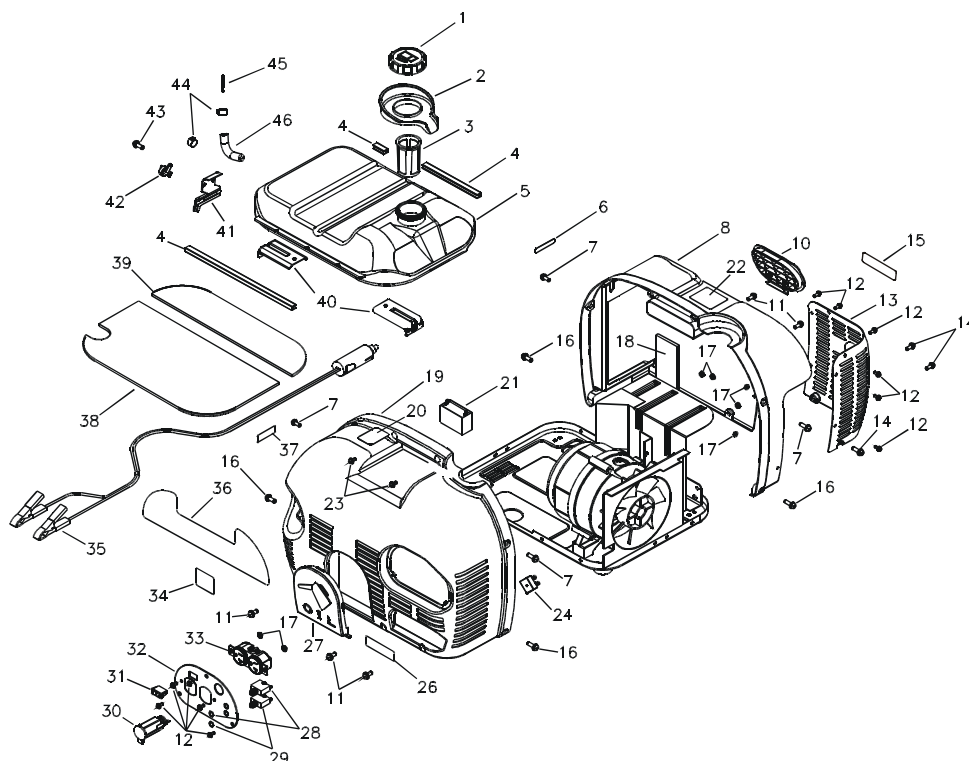
Item	Part #	Qty	Description
16	I87392GS	2	PHMS, M6-1.0, W/L/FW
17	I87383GS	1	BASE, GEN
18	I87390GS	4	BOLT, FLNG, M6-1.0 X 10
19	I87385GS	4	MNT, VIBR
20	I87427GS	4	HHCS, FLNG, M8-1.25 X 12
21	I87424GS	1	NUT, WING, M5 X 0.8
22	I87423GS	1	NUT, M5 X 0.8
23	I87419GS	2	WSHR, LOCK
24	I87420GS	2	WSHR, FLAT
25	I87401GS	2	NUT, M8-1.25, FLANGE
26	I87415GS	1	PHMS, M5-0.8 X 20
27	I87413GS	2	CNNCTR
28	I87434GS	4	HHCS, FLNG
29	I87431GS	1	STND, ENG



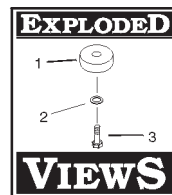
900W Generator



EXPLODED VIEW AND PARTS LIST – MAIN UNIT

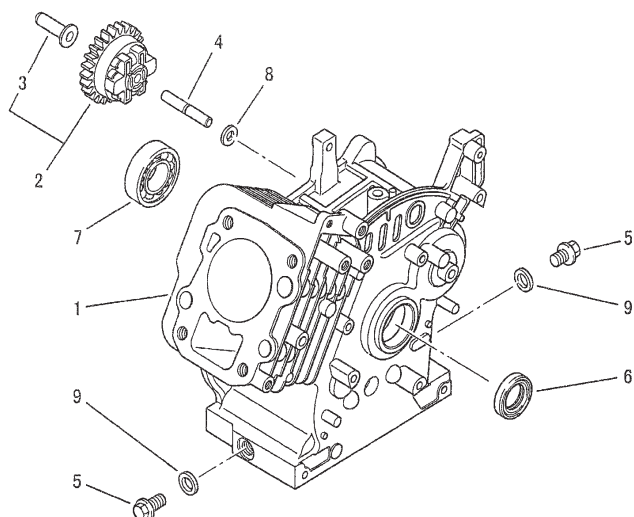


Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	187436GS	1	CAP, FUEL	25	187371AGS	1	BOTTLE, OIL
2	187439GS	1	PACKING, TANK	26	192284GS	1	DECAL, LWR PANEL
3	187438GS	1	FLTR, FUEL	27	187773GS	1	COVER, OIL FILL
4	187769GS	3	U-PACKING	28	187460GS	1	CB, DC
5	187437GS	1	TANK, FUEL, 4.5L	29	187454GS	1	CB, 8A, 125V
6	187766GS	1	DECAL, CHOKE	30	187873GS	1	OUTLET, ACCESSORY DC
7	187756GS	4	BOLT, COVER (M5-16)	31	187450GS	1	SWITCH, ENG, ON/OFF
8	187875GS	1	HSG, GEN, MFFLR	32	187812GS	1	CPNL
10	187772GS	1	COVER, SPARK PLUG	33	187456GS	1	RECPTCL, 15A, 125V
11	187757GS	5	BOLT, COVER (M6-16)	34	187763GS	1	DECAL, CAUTION OIL
12	187760GS	11	PHMS, M4-12 W/FW	35	187876GS	1	CABLE, BATTERY CHARGE
13	187435GS	1	CVR, MFFLR, GEN	36	192283GS	1	DECAL, UNIT
14	187775GS	3	BOLT, MFFLR CVR (M6-16)	37	191545GS	1	DECAL, FUEL SHUTOFF
15	191436GS	1	DECAL CAUTION HOT	38	187447GS	1	INSLTN, HTSHLD, TANK #1
16	187774GS	4	BOLT, COVER (M6-20)	39	187448GS	1	INSLTN, HTSHLD, TANK #2
17	187761GS	8	NUT, M4X0.6 W/FW	40	187442GS	2	BRKT, TANK, FUEL
18	187463GS	1	INSLTN, MFFLR	41	187758GS	1	BRKT, FUEL COCK
19	187874GS	1	HSG, GEN	42	187443GS	1	COCK, FUEL
20	NSP	1	DECAL, EMISSIONS	43	187770GS	1	PHMS, M5-10 W/FW
21	187457GS	1	CONDENSER, 300V	44	187579GS	1	CLIP, FUEL HOSE
22	191528GS	1	DECAL, WARNING	45	187440GS	1	FLTR, FUEL
23	187759GS	2	BOLT, COVER (M5-10)	46	187578GS	1	HOSE, FUEL
24	187462GS	1	DIODE, BRIDGE				

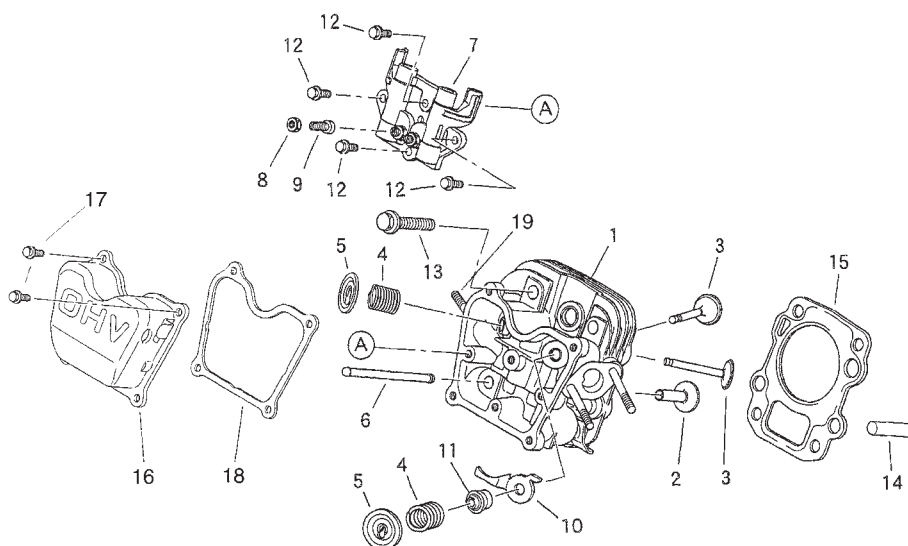


EXPLODED VIEW AND PARTS LIST – ENGINE

Cylinder Block, Cylinder Head

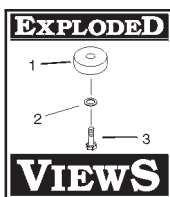


Item	Part #	Qty	Description
1	I87380GS	1	BLOCK, CYL
2	I87386GS	1	ASSY, GOV, GEAR
3	I87387GS	1	SLIDER, GOV
4	I87391GS	1	SHFT, GOV
5	I87393GS	2	PLUG, DRAIN
6	I87394GS	2	SEAL, OIL
7	I87395GS	1	BRG, BALL
8	I87400GS	1	WSHR, CYLBLOCK
9	I87402GS	2	GSKT, CYLBLOCK



Item	Part #	Qty	Description
1	I87404GS	1	ASSY, CYL HEAD
2	I87406GS	2	TPPT, CYL HEAD
3	I87408GS	2	VLV, EXH
4	I87410GS	2	SPRNG, VLV
5	I87412GS	2	RTNR, VLV SPG
6	I87414GS	2	ROD, PUSH
7	I87416GS	1	ASSY, RCKR, ARM
8	I87417GS	2	NUT, CYL HEAD
9	I87418GS	2	SCRW, ADJST
10	I87421GS	1	PLT, CYL HEAD

Item	Part #	Qty	Description
11	I87422GS	1	SEAL, VLV STEM
12	I87423GS	4	NUT, M5 X 0.8
13	I87426GS	4	BOLT, FLNG
14	I87428GS	2	PIN, DWL
15	I87429GS	1	GSKT, HEAD
16	I87468GS	1	CVR, VALVE
17	I87470GS	4	BOLT, VALVE CVR
18	I87472GS	1	GSKT, VALVE CVR
19	I87569GS	2	BOLT, STUD

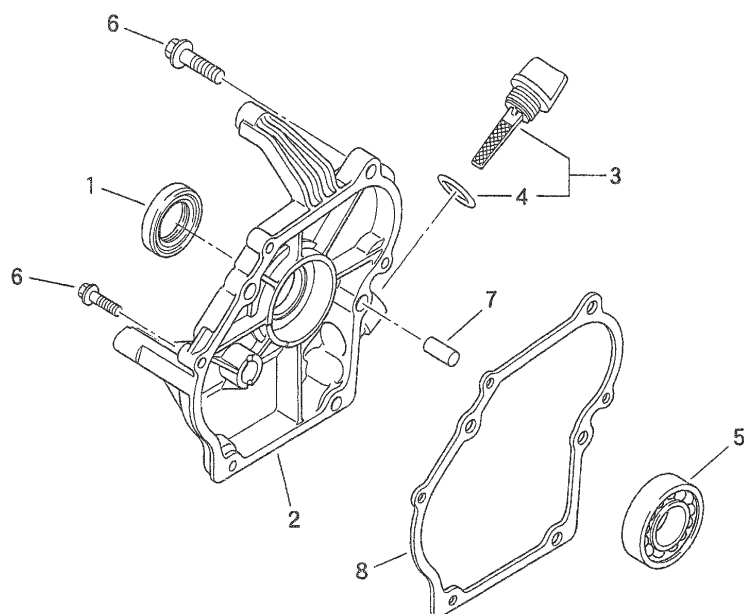


900W Generator

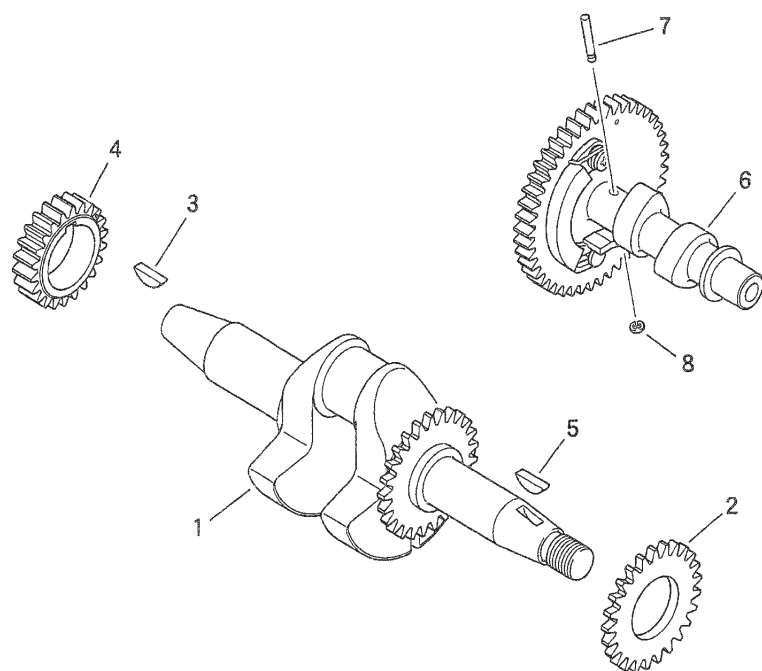


EXPLODED VIEW AND PARTS LIST – ENGINE

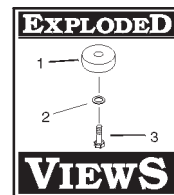
Crankcase Cover, Crankshaft/Camshaft



Item	Part #	Qty	Description
1	187394GS	2	SEAL, OIL
2	187473GS	1	CVR, CRANKCASE
3	187474GS	1	DIPSTICK, OIL
4	187475GS	1	O-RING, DIPSTICK
5	187477GS	1	BRG, PTO
6	187478GS	6	BOLT, CRANKCASE CVR
7	187428GS	2	PIN, DWL
8	187479GS	1	GSKT, CRANKCASE CVR

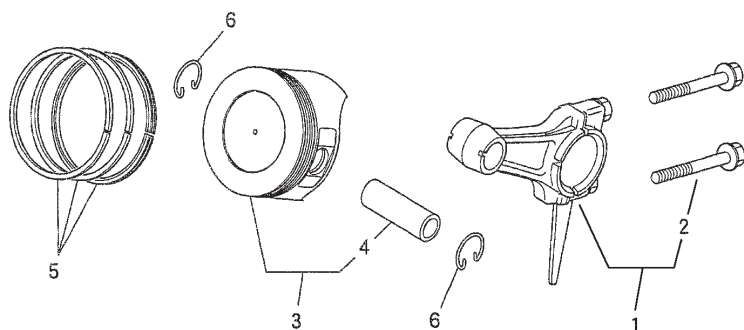


Item	Part #	Qty	Description
1	187481GS	1	ASSY, CRNKSHFT
2	187484GS	1	GEAR, CRNKSHFT
3	187486GS	2	KEY, WOODRFF
4	187487GS	1	GEAR, CRNKSHFT
6	187488GS	1	ASSY, CAMSHAFT
7	187489GS	1	PIN, CMPR REL
8	187490GS	1	RNG, SNP, CMPRSSN REL

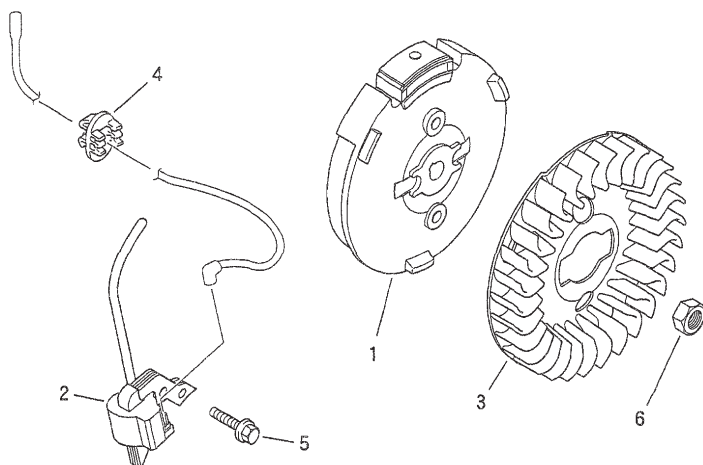


EXPLODED VIEW AND PARTS LIST – ENGINE

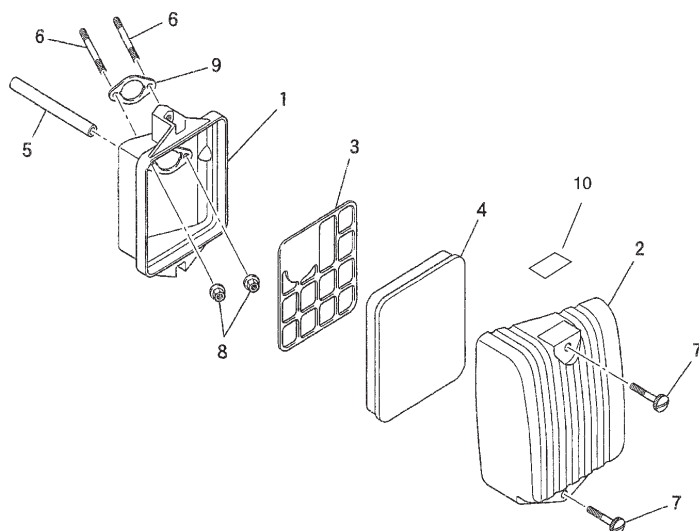
Piston/Rod, Magneto/Flywheel, Air Cleaner



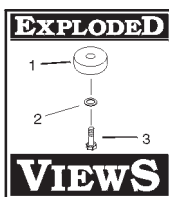
Item	Part #	Qty	Description
1	187526GS	1	ROD, CNNCTNG, STD
1	187527GS	1	ROD, CNNCTNG, US.25
1	187528GS	1	ROD, CNNCTNG, US.50
2	187529GS	2	BOLT, CNNCTNG ROD
3	187530GS	1	ASSY, PSTN, STD
3	187531GS	1	ASSY, PSTN, OS.25
3	187532GS	1	ASSY, PSTN, OS.50
4	187533GS	1	PIN, PISTON
5	187534GS	1	SET, RING, PSTN, STD
5	187535GS	1	SET, RING, PSTN, OS.25
5	187537GS	1	SET, RING, PSTN, OS.50
6	187539GS	2	CLIP, SPRING, PSTN PIN



Item	Part #	Qty	Description
1	187540GS	1	FLYWHL
2	187541GS	1	COIL, IGNITION
3	187543GS	1	FAN
4	187544GS	1	CLIP, MAGNETO
5	187545GS	2	BOLT, MAGNETO
6	187546GS	1	NUT



Item	Part #	Qty	Description
1	187492GS	1	HSNG, AIR CLNR
2	187494GS	1	CVR, AIR CLNR
3	187496GS	1	SPRT, AIR CLNR
4	187497GS	1	ELEMENT, AIR CLNR
5	187498GS	1	BRTHR, AIR CLNR
6	187500GS	2	STUD, AIR CLNR
7	187501GS	2	SCREW, AIR CLNR CVR
8	187503GS	2	NUT, AIR CLNR CVR
9	187504GS	1	GSKT, CARB
10	187576GS	1	DECAL, CHOKE

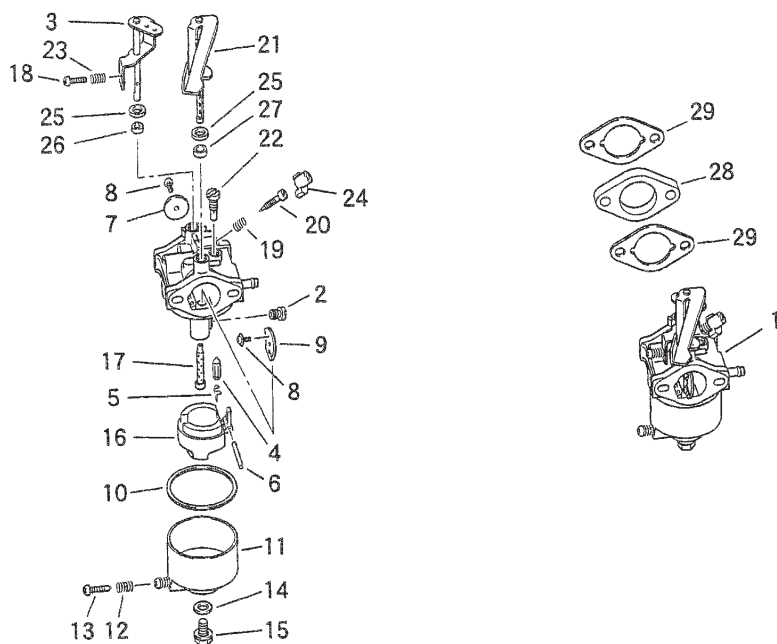


900W Generator

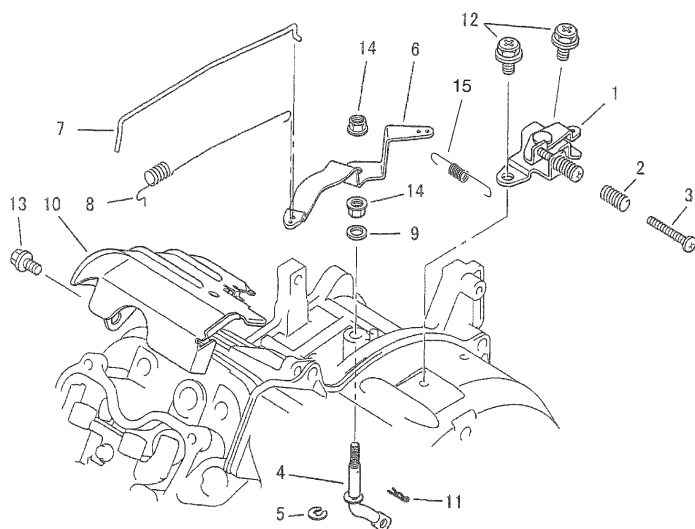


EXPLODED VIEW AND PARTS LIST – ENGINE

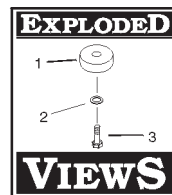
Carburetor, Control/Linkages



Item	Part #	Qty	Description
1	187469GS	1	CARB, COMPLETE
2	187471GS	1	JET, MAIN
3	187476GS	1	SHFT, THROTTL
4	187480GS	1	VLV, NEEDLE
5	187482GS	1	CLIP, CARB
6	187483GS	1	PIN, CARB
7	187485GS	1	VLV, THRTTL
8	187491GS	3	HHCS, CARB
9	187493GS	1	VLV, CHOKE
10	187495GS	1	GSKT, CARB
11	187499GS	1	CHMBR, FLOAT
12	187502GS	1	SPRING, CARB
13	187509GS	1	HHCS, CARB
14	187511GS	1	GSKT, CARB
15	187525GS	1	BOLT, CARB
16	187536GS	1	FLOAT, CARB
17	187538GS	1	NZZL, MAIN, CARB
18	187542GS	1	HHCS, CARB
19	187502GS	1	SPRING, CARB
20	187547GS	1	ADJSTR, CARB
21	187548GS	1	LEVER, CHOKE
22	187549GS	1	JET, PILOT
23	187550GS	1	SPRING, CARB
24	187551GS	1	CAP, CARB
25	187552GS	2	PACKING, CARB
26	187553GS	1	SEAL, CARB
27	187554GS	1	SEAL, CARB
28	187556GS	1	INSLTR, CARB
29	187504GS	2	GSKT, CARB

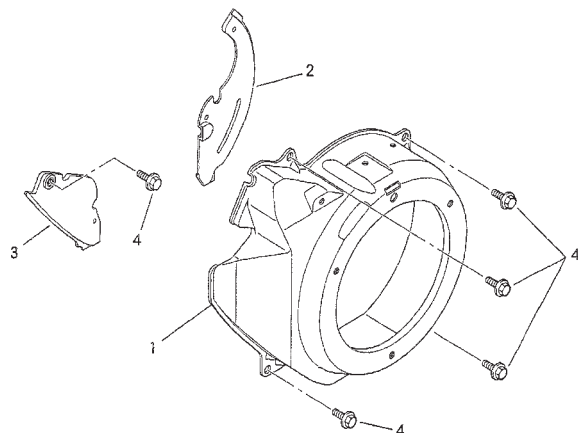


Item	Part #	Qty	Description
1	187505GS	1	BRKT, SPEED CNTRL
2	187506GS	1	SPRING, SPEED CNTRL
3	187507GS	1	SCREW, SPEED CNTRL
4	187508GS	1	SHFT, GOV
5	187510GS	1	RING, SNAP, GOV ROD
6	187512GS	1	LEVER, GOV
7	187513GS	1	ROD, GOV
8	187514GS	1	SPRING, GOV LEVER
9	187515GS	1	WSHR, GOV LEVER
10	187516GS	1	CVR, TOP
11	187517GS	1	CLIP, GOV ROD
12	187518GS	1	BOLT, SPEED CNTRL BKT
13	187519GS	1	BOLT, TOP CVR
14	187520GS	2	NUT, GOV LEVER
15	187570GS	1	SPRING, GOV

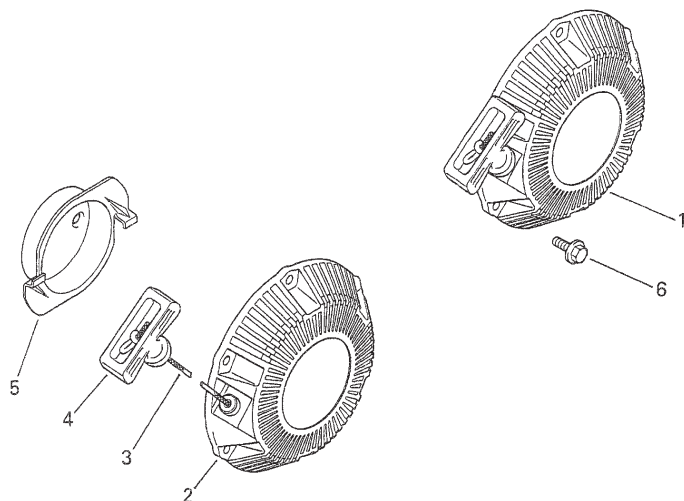


EXPLODED VIEW AND PARTS LIST – ENGINE

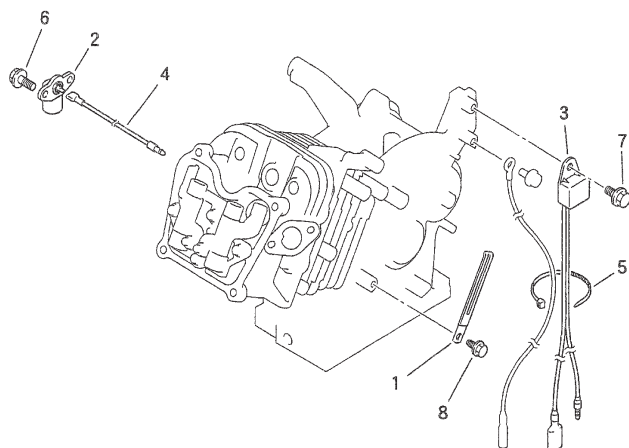
Fan Cover, Recoil Starter, Oil Sensor



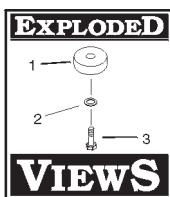
Item	Part #	Qty	Description
1	187521GS	1	CVR, FAN
2	187522GS	1	CVR, FAN
3	187523GS	1	CVR, FAN
4	187524GS	4	BOLT, FAN CVR



Item	Part #	Qty	Description
1	187557GS	1	ASSY, RECOIL, STRTR
2	187558GS	1	STRTR, RECOIL
3	187559GS	1	ROPE, RECOIL
4	187560GS	1	HNDL, RECOIL
5	187561GS	1	PULLEY, STRTR
6	187562GS	3	BOLT, FLNG



Item	Part #	Qty	Description
1	187563GS	1	CLAMP, OILSNSR
2	187564GS	1	SNSR, OIL
3	187565GS	1	UNIT, OILSNSR
4	187566GS	1	WIRE, LEAD
5	187567GS	1	BAND, OILSNSR
6	187470GS	2	BOLT, VALVE CVR
7	187524GS	1	BOLT, FAN CVR
8	187568GS	1	BOLT, FLNG

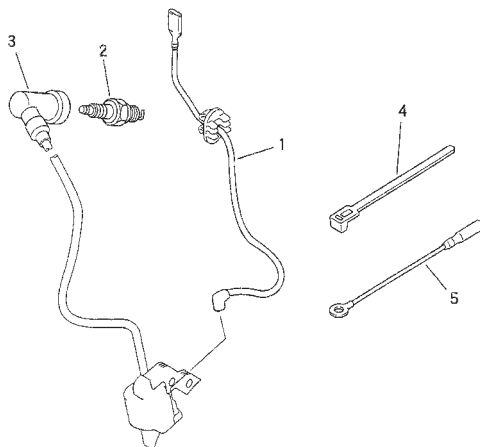


900W Generator

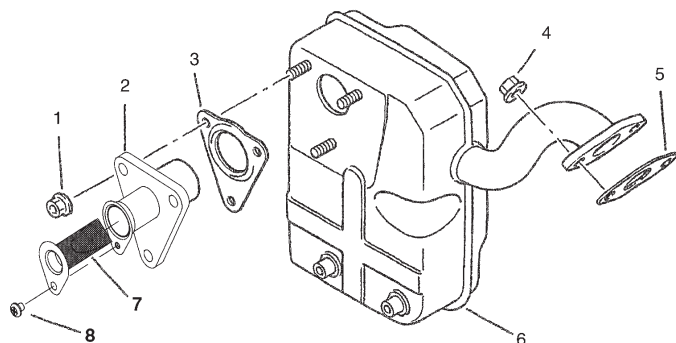


EXPLODED VIEW AND PARTS LIST – ENGINE

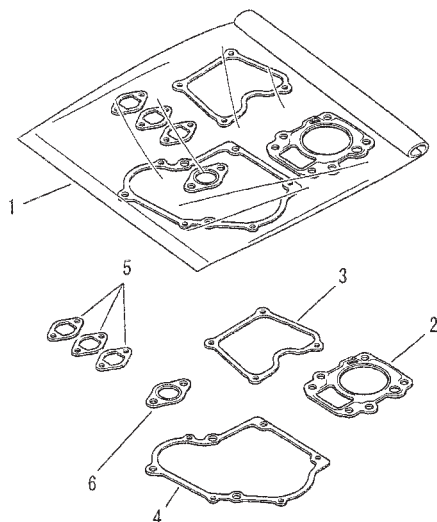
Lead Wires, Muffler, Gasket Set



Item	Part #	Qty	Description
1	187571GS	1	WIRE, LEAD
2	187572GS	1	PLUG, SPARK
3	187573GS	1	CAP, PLUG
4	187574GS	1	TIEWRAP, LEAD WIRE
5	187575GS	1	WIRE, LEAD



Item	Part #	Qty	Description
1	187449GS	3	NUT, FLNG
2	188261GS	1	PIPE, TAIL
3	187446GS	1	GSKT, MFFLR
4	187455GS	2	NUT, CONICAL
5	187451GS	1	GSKT, MFFLR
6	187444GS	1	MFFLR
7	188263GS	1	SCREEN, SPARK
8	188262GS	1	SCREW



Item	Part #	Qty	Description
1	187461GS	1	SET, GSKT (Includes items 2-6)
2	187429GS	1	GSKT, HEAD
3	187472GS	1	GSKT, VALVE CVR
4	187479GS	1	GSKT, CRANKCASE CVR
5	187504GS	3	GSKT, CARB
6	187451GS	1	GSKT, MFFLR

EMISSION CONTROL SYSTEM WARRANTY

Briggs & Stratton Power Products (BSPP), the California Air Resources Board (CARB) and the United States Environmental Protection Agency (U.S.EPA)

Emission Control System Warranty Statement (Owner's Defect Warranty Rights and Obligations)

EMISSION CONTROL WARRANTY COVERAGE IS APPLICABLE TO CERTIFIED ENGINES PURCHASED IN CALIFORNIA IN 1995 AND THEREAFTER WHICH ARE USED IN CALIFORNIA, AND TO CERTIFIED MODEL YEAR 1997 AND LATER ENGINES WHICH ARE PURCHASED AND USED ELSEWHERE IN THE UNITED STATES (AND AFTER JANUARY 1, 2001 IN CANADA).

California and U.S. EPA Emission Control Warranty Statement Your Warranty Rights and Obligations

The California Air Resources Board (CARB), U.S.EPA and Briggs & Stratton Power Products (BSPP) are pleased to explain the Emission Control System Warranty on your model year 2000 and later small off-road engine (SORE). In California, new small off-road engines must be designed, built and equipped to meet the State's stringent anti-smog standards. Elsewhere in the United States, new non-road, spark-ignition engines certified for model year 1997 and later, must meet similar standards set forth by the U.S.EPA. BSPP must warrant the emission control system on your engine for the periods of time listed below, provided there has been no abuse, neglect, or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, and catalytic converter. Also included may be hoses, belts, connectors and other emission related assemblies.

Where a warrantable condition exists, BSPP will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

BSPP Emission Control Defects Warranty Coverage

The 1995 and later small off-road engines are warranted for two years. If any emission-related part on your engine is defective, the part will be repaired or replaced by BSPP.

Owner's Warranty Responsibilities

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in this owner's manual. BSPP recommends that you retain all your receipts covering maintenance on your small off-road engine, but BSPP cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that BSPP may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an approved BSPP Service Center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact a BSPP Service Representative at 1-800-743-4115.

BSPP Emission Control Defects Warranty Provisions

The following are specific provisions relative to your Emission Control Defects Warranty Coverage.

1. Warranted Parts

Coverage under this warranty extends only to the parts listed below (the emission control systems parts) to the extent these parts were present on the engine purchased.

- a. Fuel Metering System
 - Cold start enrichment system
 - Carburetor and internal parts
 - Fuel Pump
- b. Air Induction System
 - Air cleaner
 - Intake manifold
- c. Ignition System
 - Spark plug(s)
 - Magneto ignition system
- d. Catalyst System
 - Catalytic converter
 - Exhaust manifold
 - Air injection system or pulse valve
- e. Miscellaneous Items Used in Above Systems
 - Vacuum, temperature, position, time sensitive valves and switches
 - Connectors and assemblies

2. Length of Coverage

BSPP warrants to the initial owner and each subsequent owner that the Warranted Parts shall be free from defects in materials and workmanship which caused the failure of the Warranted Parts for a period of two years from the date the engine is delivered to a retail purchaser.

3. No Charge

Repair or replacement of any Warranted Part will be performed at no charge to the owner, including diagnostic labor which leads to the determination that a Warranted Part is defective, if the diagnostic work is performed at an approved BSPP Service Center.

4. Claims and Coverage Exclusions

Warranty claims shall be filed in accordance with the provisions of the BSPP Warranty Policy. Warranty coverage shall be excluded for failures of Warranted Parts which are not original BSPP parts or because of abuse, neglect or improper maintenance as set forth in the BSPP Engine Warranty Policy. BSPP is not liable to cover failures of Warranted Parts caused by the use of add-on, non-original, or modified parts.

5. Maintenance

Any Warranted Part which is not scheduled for replacement as required maintenance or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted as to defects for the warranty period. Any Warranted Part which is scheduled for replacement as required maintenance shall be warranted as to defects only for the period of time up to the first scheduled replacement for that part. Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. The owner is responsible for the performance of all required maintenance, as defined in this owner's manual.

6. Consequential Coverage

Coverage hereunder shall extend to the failure of any engine components caused by the failure of any Warranty Part still under warranty.

In the USA and Canada, a 24-hour hotline, 1-800-233-3723, has a menu of pre-recorded messages offering you product maintenance information.

BRIGGS & STRATTON POWER PRODUCTS OWNER WARRANTY POLICY Effective January 1, 2003

LIMITED WARRANTY

"Briggs & Stratton Power Products will repair or replace, free of charge, any part, or parts of the equipment**that are defective in material or workmanship or both. Transportation charges on parts submitted for repair or replacement under this warranty must be borne by purchaser. This warranty is effective for the time periods and subject to the conditions provided for in this policy. For warranty service, find the nearest Authorized service dealer by calling 1-800-743-4115. Warranty service may only be performed by a Briggs & Stratton Power Products Authorized service dealer.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE TIME PERIOD SPECIFIED, OR TO THE EXTENT PERMITTED BY LAW. ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some countries or states do not allow limitations on how long an implied warranty lasts, and some countries or states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from country to country or state to state."

WARRANTY PERIOD*

Equipment **	Consumer Use	Commercial Use
Pressure Washer Water Pump	1 Year	90 Days
Portable Generator Home Generator System - Less than 10 KW (Includes Transfer Switch, if supplied)	2 Years (2nd year parts only)	1 Year
Home Generator System - 10 KW or greater (Includes Transfer Switch, if supplied)	3 years or 1500 hours	3 years or 1500 hours

* The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated in the table above. "Consumer use" means personal residential household use by a retail consumer.

"Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once equipment has been used commercially, it shall thereafter be considered to be in commercial use for purposes of this warranty.

** The engine and starting batteries are warranted solely by the manufacturers of those products.

WARRANTY REGISTRATION IS NOT NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON POWER PRODUCTS EQUIPMENT. SAVE YOUR PROOF OF PURCHASE RECEIPT. IF YOU DO NOT PROVIDE PROOF OF THE INITIAL PURCHASE DATE AT THE TIME WARRANTY SERVICE IS REQUESTED, THE MANUFACTURING DATE OF THE EQUIPMENT WILL BE USED TO DETERMINE THE WARRANTY PERIOD.

About your equipment warranty:

We welcome warranty repair and apologize to you for being inconvenienced. Any Authorized service dealer may perform warranty repairs. Most warranty repairs are handled routinely, but sometimes requests for warranty service may not be appropriate. For example, warranty service would not apply if equipment damage occurred because of misuse, lack of routine maintenance, shipping, handling, warehousing or improper installation. Similarly, the warranty is void if the manufacturing date or the serial number on the equipment has been removed or the equipment has been altered or modified. During the warranty period, the Authorized service dealer, at its option, will repair or replace any part that, upon examination, is found to be defective under normal use and service. This warranty will not cover following repairs and equipment:

- **Normal Wear:** Outdoor power equipment, like all mechanical devices, needs periodic parts, service and replacement to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.
- **Installation and Maintenance:** This warranty does not apply to equipment or parts that have been subjected to improper or unauthorized installation or alteration and modification, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in our judgment, to adversely affect its performance and reliability. This warranty also does not cover normal maintenance such as adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon, lime, etc.).
- **Other Exclusions:** Also excluded from this warranty are wear items such as quick couplers, oil gauges, belts, o-rings, filters, pump packing, etc., pumps which have been run without water supplied or damage or malfunctions resulting from accidents, abuse, modifications, alterations, or improper servicing or freezing or chemical deterioration. Accessory parts such as guns, hoses, wands and nozzles are excluded from the product warranty. Also excluded is used, reconditioned, and demonstration equipment; equipment used for prime power in place of utility power and equipment used in life support applications.

BRIGGS & STRATTON POWER PRODUCTS GROUP, LLC
JEFFERSON, WISCONSIN, U.S.A.